

What is claimed is:

1. A micro channel unit comprising a micro channel with a width of micrometer dimensions through which liquid flows, the micro channel comprising:  
a plurality of straight channel portions extending in a straight line pattern; and  
5 connecting channel portions that connect each pair of adjacent straight channel portions, the connecting channel portions being wider than the straight channel portions connected by the connecting channel portions.

2. The micro channel unit of claim 1, wherein each connecting channel  
10 portion becomes progressively wider from one of two adjacent straight channel portions connected by the connecting channel portion, toward the other straight channel portion, and is widest in a middle portion.

3. The micro channel unit of claim 2, wherein the shape of the connecting  
15 channel portion is curved.